

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

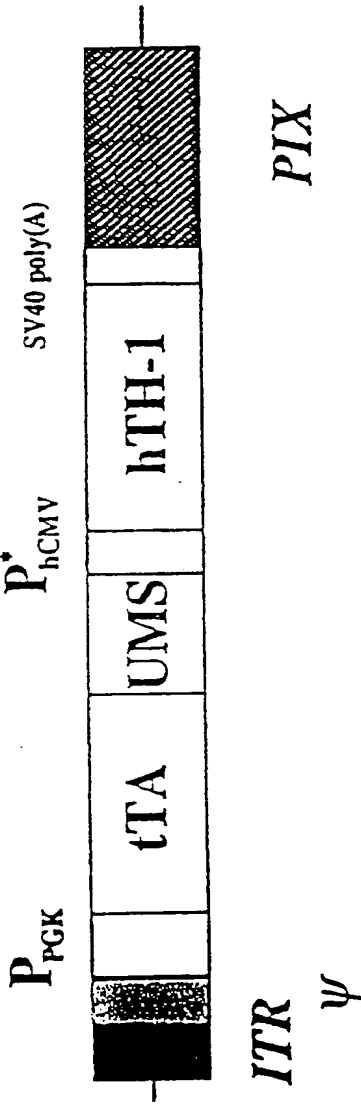


FIGURE 1

2/7

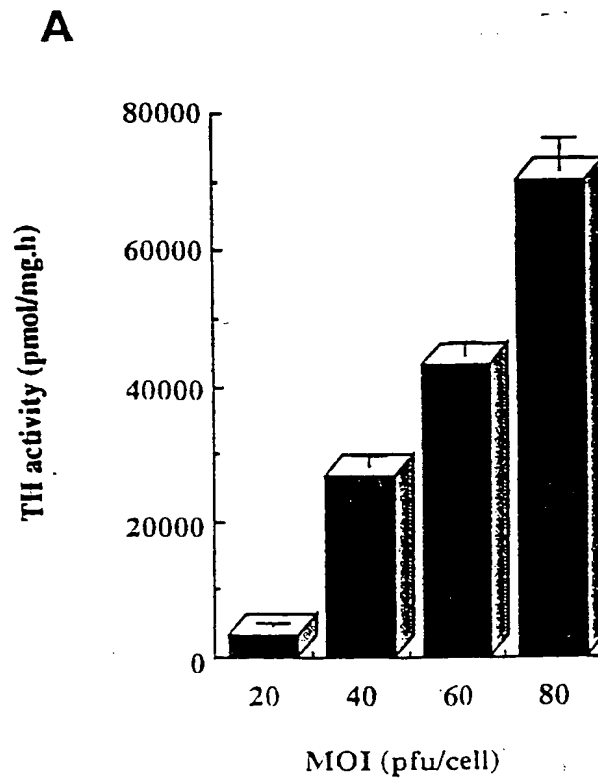


Figure 2A



Figure 23

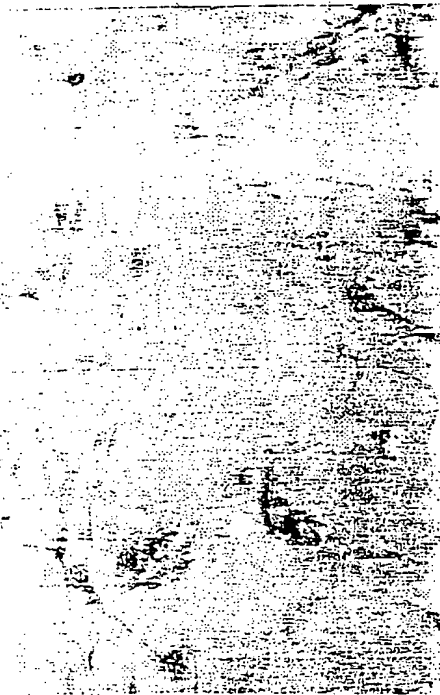
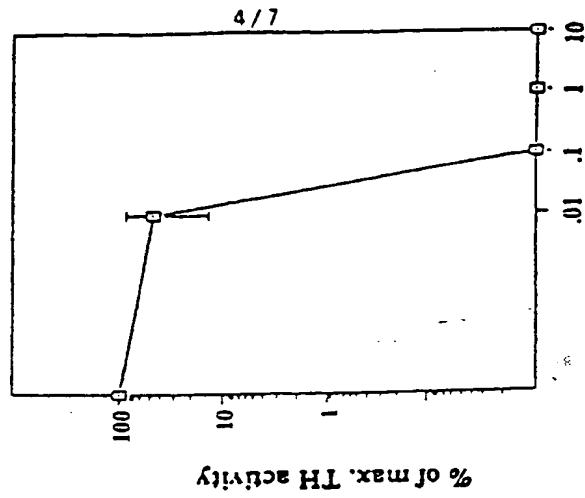


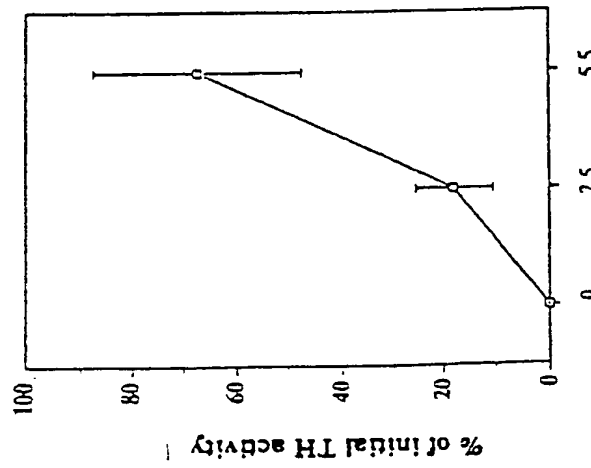
Figure 2C

Figure 3C



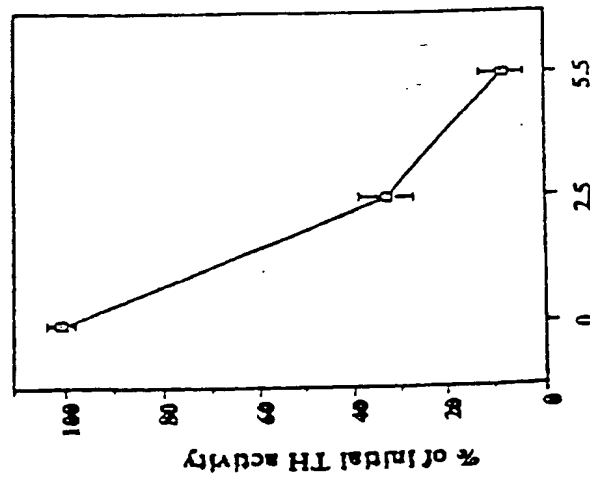
dose of doxycycline (ng/ml)

Figure 3B



days after withdrawal of doxycycline

Figure 3A



days after addition of doxycycline

5/7



Figure 4A

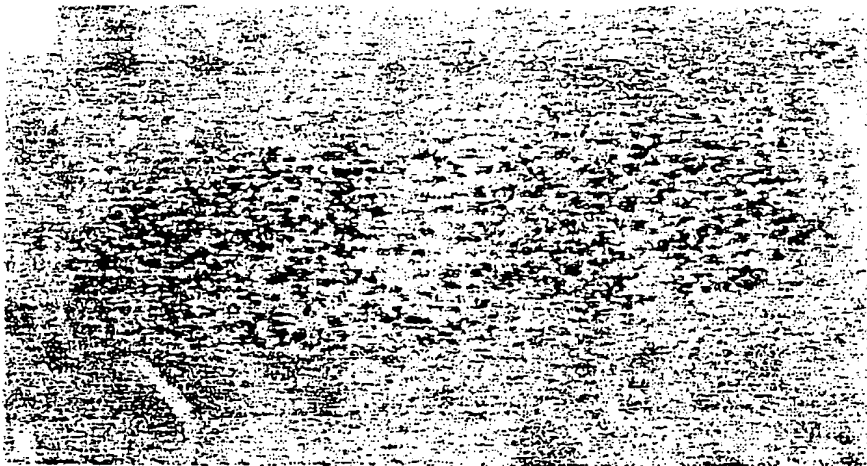


Figure 4B

6/7



Figure 5A



Figure 5B

1	CTCGAGGAGC	TCGAATTTCAT	ATGCTCTAGAT	TAGAT'AAAAG	TAAAGTGATT	AACAGCGCAT	TAGAGCTGCT	TAATGAGGTC	80
81	GGAATCGAAG	GTTTAAACAAC	CCG'AAACTC	GCCCAGAGC	TAGGTGTAGA	GCAGCCTACA	TTGTATTTGGC	ATGT'AAAAA	160
161	TAAAGCGGCT	TTGCTCGACG	CCTTAGCCAT	TGAGATGTTA	GATAGGCACC	ATACTCACTT	TTGCCCTTTTA	GNAGGGAAA	240
241	GCTGGCAAGA	TTT'TTTTACGT	AATAACGCTA	ANAAGT'ITAG	ATGTGCTTTA	CTAAGTTCATC	GCGATGGAGC	AAAAGTACAT	320
321	TTAGGTACAC	GCCCTACAGA	AAAACAGTAT	GAAACTCTCG	AAAATCAAT	AGCCTTTT'ITA	TGCCAACAAAG	GTTT'TTCACT	400
401	AGAGANTGCA	T'IA'IA'IGCAC	TCAGCGCTGT	GCGGCATTTT	ACTTTTAGGT	GCGTATTTGGA	AGATCAAGAG	CATCAAGTCG	480
481	CTAAAGAAGA	AAGGGAACA	CCTACTACTG	ATAGTATGCC	GCCAT'IA'ITA	CGACAAGCTA	T'CGAATTA'IT	TGATCACCAC	560
561	GGTGCAGAGC	CAGCCTTCTT	ATTCCGGCTT	GAAATGATCA	TATGCGGATT	AGAAAAACAA	CTTAAATGTG	AAAGTGGTTC	640
641	CGGTACAGC	CGCGCGGTA	CGAAAAACA	T'TACGGTCT	ACCATCGAGG	GCCTGCTCGA	TC'TCCCGGAC	GACGACGCC	720
721	CCGAAGAGGC	GGGCTGGCG	GC'TCCGGCC	TGTCTTTTCT	CCCCCGGGA	CACACGGCA	GACTGTGCGAC	GGCCCCCCCG	800
801	ACCGATGTCA	GCTTGGGGG	CGAGCTCCAC	T'TAGACGGCG	AGGACGTGGC	GATGGGCGAT	GCCGACGCGC	TAGACGATTT	880
881	CGATCTGGAC	ATGTTGGGGG	ACGGGATTC	CCCGGTCCG	GGAT'TTACCC	CCCACGACTC	CGCCCCCTAC	GGCGCTCTGG	960
961	ATATGGCCGA	CTTCAGATT	GAGCAGATGT	T'TACCGATGC	CC'TTGGAAIT	GACGAGTACG	GTGGGTAGGG	GGCGCGAGGA	1040
1041	TCTCAGATT	GTGCATACAC	AGTGACTCAT	ACT'TTACCA	ATACTTTTGA	T'TTGGATAA	ATACTAGACA	ACTTTAGAA	1120
1121	TGAATTA'IT	ATGAGGTGT	CTTAAAT'ITA	AAAAIT'ACAA	ACTAAAT'IAAT	CACATTTGTA	TGTAATTTTGT	GTGATACCCA	1200
1201	GAGGT'TTAA	GCAACCTATT	ACTCTTATGC	TCC'TGAAAGTC	CACAAIT'ACAC	AGTCCTGAAC	TATAATCTT'A	TCTTTTGTAT	1280
1281	TGCTGAGCAA	ATTTGCAGTA	TAA'TTTCAGT	GC'TTTTAAAT	T'TTGTCTTGC	T'TACTATTTT	CCTTTT'TAT	TTGGGTTTGA	1360
1361	TATCGGTGCA	CAGAAATGGG	CTTCTAT'IAA	AAATAT'CCAT	GGCTTACAT	T'TTAAATGTTT	TGTTCTCTT'A	ATATGTTCAA	1440
1441	AGCTACTCAA	CTT'TTAT'TCC	CGAAAAATGT	T'TTACTTT'IAAT	TAT'TCTAAIT	TCT'TACATAA	AGCATTTGAGG	TGCTAACAA	1520
1521	TATATAC'TAT	GTACAAAGATG	GCAGACTTAA	TCAATATCAT	CCATCAAGTA	GAAACCTGGA	GTTTGGTGAA	C'TTTGAGTTG	1600
1601	T'TTATATGTC	TCTTCC'TTAT	TGTC'TTCTCA	AAACCTGTGA	T'TCTGAAAGTC	AAAGGGACAC	AGCTGTCACA	TGAAAAAGTA	1680
1681	TCAC'TTATCA	CCTGTATGCG	TAAACACACT	TACCAGAGCAG	CTAAGAGGAG	TAACTTCTTAG	CCACTTTGAG	AAACGTTT'TT	1760
1761	GAATAAACAG	AGCAAGGCTC	TTCCCCCATTC	TCCCAGAGAT	ATAGCAT'AAA	ACTGAGCGCA	T'TTTTAT'AAA	ACAAAAAAGG	1840
1841	AGGAATGTGT	GGT'TTGATGG	CCAGACCC'IG	AA'TTTGAGTT	CAGCATCTGC	T'TTTTCCATAT	TATAGATGGG	TACCAGTGAT	1920
1921	TCTGAGCCAT	GTCTATTTCT	CCTGACTTTT	CCTCTGT'TTT	CCCACGCTTG	CTGAT'ATTTA	CAGCCGTGGT	CATCACATC	2000
2001	ACCTTTTGTTC	CTTCTTCTCT	TCCCTCCAACT	CTGCAIT'IAA	T'TCCAGGAAC	TTGCTTTCTG	TGAAGTCTGA	GTTTACCAC	2080
2081	CCCTATCAGT	GATAGAGAAA	AGTGAAGTGC	GAGT'TTACCA	CTCCCTATCA	GTGA'TAGAGA	AAAGTGAAG	TCGAGTTTAC	2160
2161	CAC'TCCCTAT	CAGT'GATAGA	GAAAAAGTGA	AGTCGAGTTT	ACCAC'TCCCT	ATCAGTGA'A	GAGAAAAAGT	AAAGTCGAGT	2240
2241	T'TACAC'JCC	CTATTCAGTGA	TAGAGAAAAAG	TGAAAGT'CGA	GTTTACCAC	CCC'ATCAGT	GATAGAGAAA	AGTGAAGTTC	2320
2321	GAGT'TTACCA	CTCCCTATCA	GTGATAGAGA	AAAGTGAAG	TCGAGCTCGG	TACCCGGGTC	GAGT'AGGCGT	GTACGGTGGG	2400
2401	AGGCCTATAT	AAGCAGAGCT	CGTTTAGTGA	ACCGTCAGAT	CGCCTGGAGA	CGCCATCCAC	GCTGT'TT'TGA	CCTCCATAGA	2480
2481	AGACACCGGG	ACCGATCCAG	CC						2502